

Product Information

3-zone high-temperature (up to 1000°C) round furnace, including switch and control unit

CTA: 23713 23714



High-temperature furnace



Control unit for high-temperature furnace

Range of application

The high-temperature furnace is used for determining the technical properties of high-temperature-resistant materials. Special tests to determine short-term strength (LCR tests) require on-specimen test temperatures up to 1000°C. To achieve as uniform a temperature distribution on the specimen as possible the high-temperature furnace features three independently controlled temperature-zones.

Advantages and features

- three independently controlled heating-zones for good temperature distribution
- one movable thermocouple per heating zone ensures accurate control of furnace temperature
- three movable thermocouples for temperature measurement in close proximity to specimen
- rustproof furnace housing with convection cooling for reduction of outer-wall temperature
- ready for use with non-contact extensometers
- extensometer mounting directly on furnace or via separately mounted measuring systems as required
- digital temperature display directly on temperature controller
- choice between stand-alone operation or temperature control via testXpert II or testXpert Research.

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1000°C high-temperature furnace		
Item No.	083674	
Temperature range (specimen)	200 to 1000	°C
Heating zones	3	
Heating rate	5	K/min
Thermocouples		
zone temperature	Type N	
temperature close to specimen	Type N	
Weight	approx. 41	kg
Dimensions		
Furnace external diameter	303	mm
Furnace external height	370	mm
Heated area internal diameter	90	mm
Diameter for specimen feed-through	32	mm
Heated area internal height	315	mm
Heated length	315	mm
Length of extensometer slot	90 x 10	mm
Control unit		
Dimensions (D x W x H)	330 x 360 x 285	mm
Controller weight	approx. 11	kg
Digital display		
Zone thermocouples	3 x Eurotherm 2216	
Specimen proximity thermocouples	3 x Eurotherm 2216	
Interface	RS-232	
Electrical supply	3.3 kW / 16 A / 50/60 Hz	

Description	Item number
Mounting bracket/swivel device for high-temperature furnace on HA100	935321
Mounting bracket/swivel device for high-temperature furnace on HA250	044373